

Amendments to the Claims

Please amend the claims as instructed in the marked-up version of the listing of claims presented below. This listing of claims replaces all prior versions, and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A two-stage screw compressor comprising:

two compressor stages that are parallel with respect to one another, each compressor stage having a pair of screw rotors that mesh together and are located in a respective rotor housing, and

a coolant housing enclosing both of the rotor housings and having a coolant inlet[[,]] and a coolant outlet, and at least one guide wall, the at least one guide wall at least partially defining ~~designed such that the~~ a coolant flow path, wherein the coolant flow path allows a coolant to flow that flows from the coolant inlet to the coolant outlet such that coolant passes around both rotor housings and cools both rotor housings.

2. (Original) A screw compressor according to claim 1, characterized in that the coolant first passes around and cools essentially one rotor housing and then the other rotor housing along its flow path from the inlet to the outlet.

3. (Currently Amended) A two-stage screw compressor comprising two compressor stages that are parallel with respect to one another, each compressor stage having a pair of screw rotors that mesh together and are located in a respective rotor housing; a coolant housing enclosing both of the rotor housings and having a coolant inlet and a coolant outlet, designed such that a coolant that flows from the inlet to the outlet passes around and cools essentially one rotor housing and then the other rotor housing along its flow path from the inlet to the outlet; wherein the ~~according to claim 2, characterized in that the~~ coolant first flows around the rotor housing of the first compressor stage and then the rotor housing of the second compressor stage.

4. (Previously Amended) A two-stage screw compressor comprising two compressor stages that are parallel with respect to one another, each compressor stage having a pair of screw rotors that mesh together and are located in a respective rotor housing, each of the two rotor housings being surrounded by a coolant housing and being cooled by coolant that flows inside of the coolant housing, both rotor housings being enclosed at a distance by the coolant housing and the coolant housing having a coolant inlet and a coolant outlet designed such that the coolant that flows from the inlet to the outlet passes around and cools both rotor housings, characterized in that the flow path of the coolant proceeds in an S shape first around one compressor stage and then around the other compressor stage.

5. (Previously Amended) A two-stage screw compressor comprising two compressor stages that are parallel with respect to one another, each compressor stage having a pair of screw rotors that mesh together and are located in a respective rotor housing, each of the two rotor housings being surrounded by a coolant housing and being cooled by coolant that flows inside of the coolant housing, both rotor housings being enclosed at a distance by the coolant housing and the coolant housing having a coolant inlet and a coolant outlet designed such that the coolant that flows from the inlet to the outlet passes around and cools both rotor housings, characterized in that an intermediate space between the coolant housing and the rotor housings is partitioned by means of guide walls that force the cooling medium to take the prescribed flow path.

6. (Original) A screw compressor according to claim 1, characterized in that the rotor housings are designed as an integral block in one piece with at least a section of the coolant housing.

7. (Currently Amended) A two-stage screw compressor comprising two compressor stages that are parallel with respect to one another, each compressor stage having a pair of screw rotors that mesh together and are located in a respective rotor housing, each of the two rotor housings being surrounded by a coolant housing and being cooled by coolant that flows inside of the coolant housing, both rotor housings being enclosed at a distance by the coolant housing and the coolant housing having a coolant inlet, ~~and a coolant outlet,~~ and at least one guide wall designed such that the coolant that flows from the inlet to the outlet passes around and cools both rotor housings, characterized in that the coolant housing is designed essentially box-shaped with four sides that are parallel to the screw rotors of the compressor stages, and the compressor having four connections including a first compressor stage inlet, a first compressor stage outlet, a second compressor stage inlet and a second compressor stage outlet, one connection being located on each side of the coolant housing.